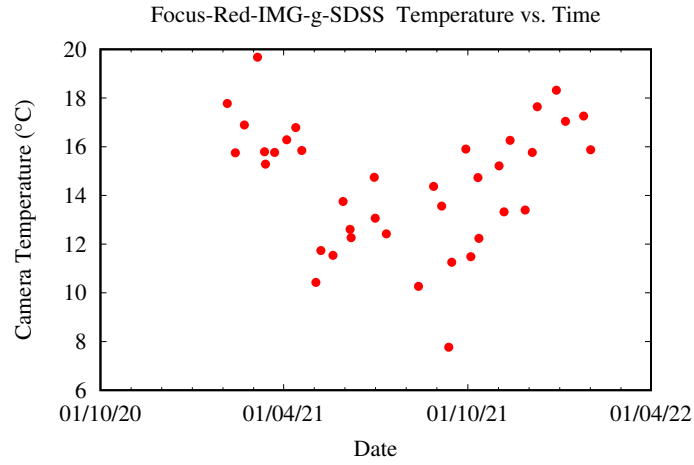
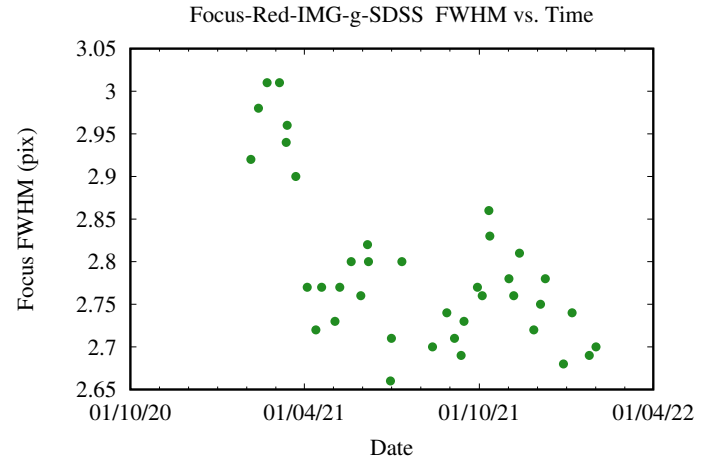
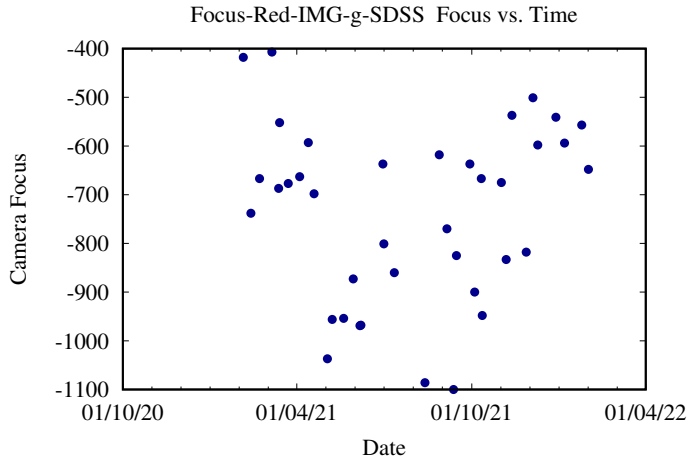
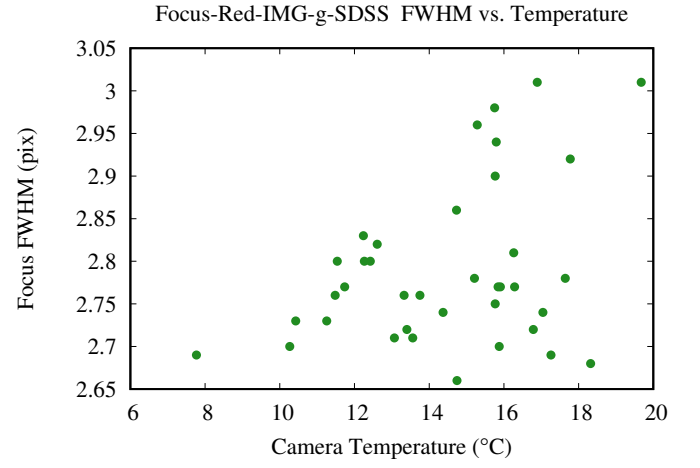
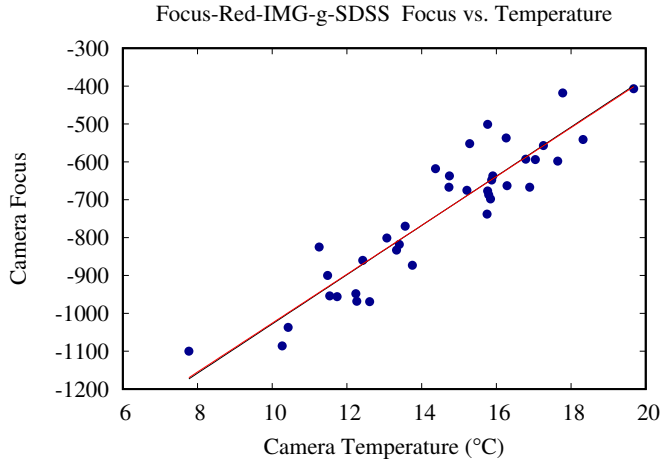


Goodman camera focus drift as a function of temperature and time

The analysis is based on 63 AEON epochs between 2019-08-10 and 2022-01-31 when the following setups were focused on two or more nights:

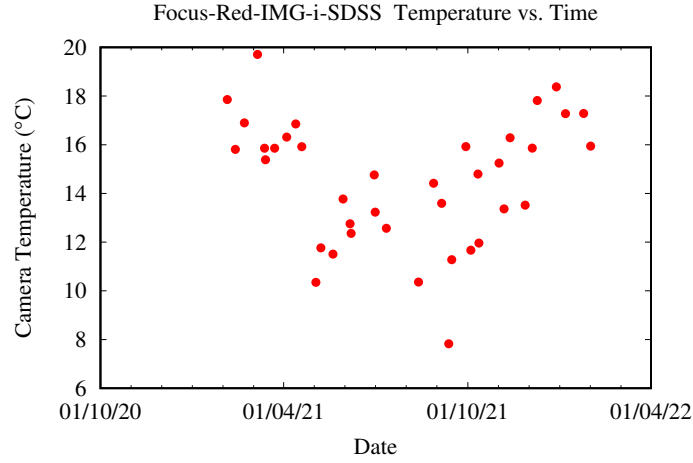
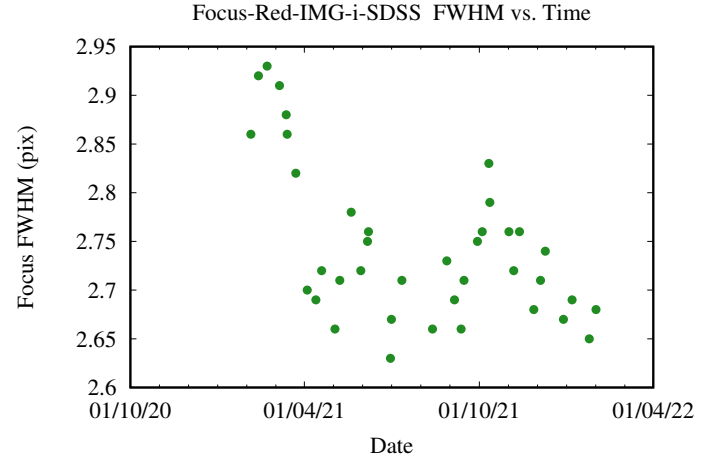
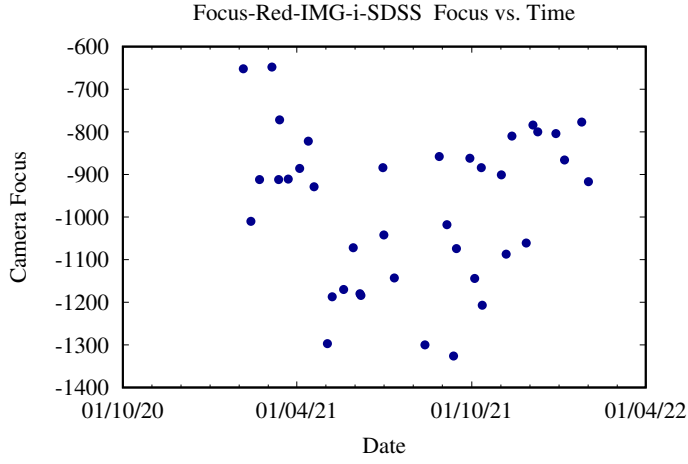
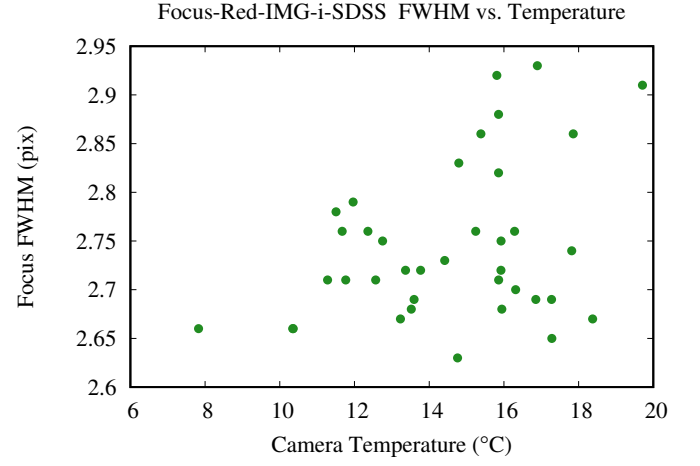
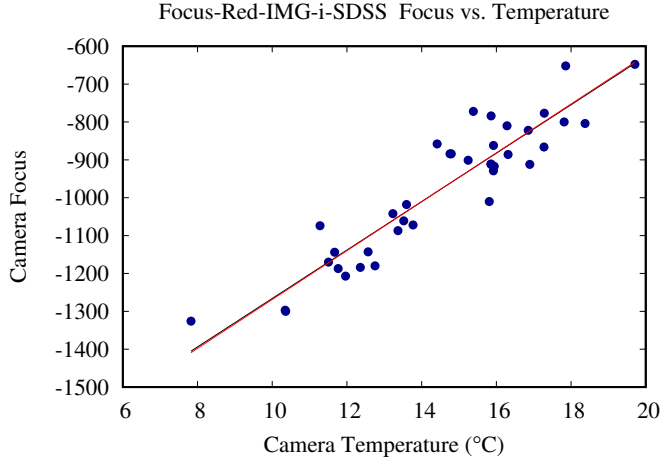
#	N.obs	FWHM	FWHM.std	Setup
38	2.77	0.07	Focus-Red-IMG-g-SDSS	
38	2.72	0.06	Focus-Red-IMG-i-SDSS	
38	2.73	0.07	Focus-Red-IMG-r-SDSS	
19	2.76	0.09	Focus-Red-IMG-VR	
19	4.08	0.22	Focus-Red-IMG-z-SDSS	
51	2.90	0.06	Focus-Red-SP-400 M1-NO FILTER	
37	2.96	0.22	Focus-Red-SP-400 M2-GG455	
19	2.79	0.07	Focus-Red-SP-600 MID-GG395	
19	2.86	0.03	Focus-Red-SP-600 RED-GG495	
32	2.74	0.04	Focus-Red-SP-930 M2-NO FILTER	

The median focus slope is 64.5/°C.



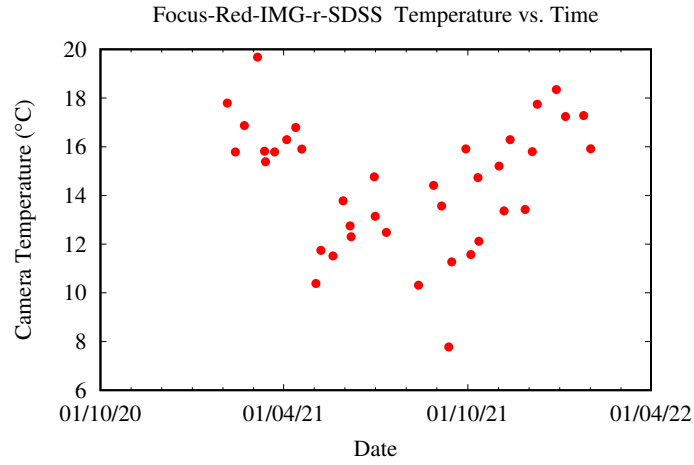
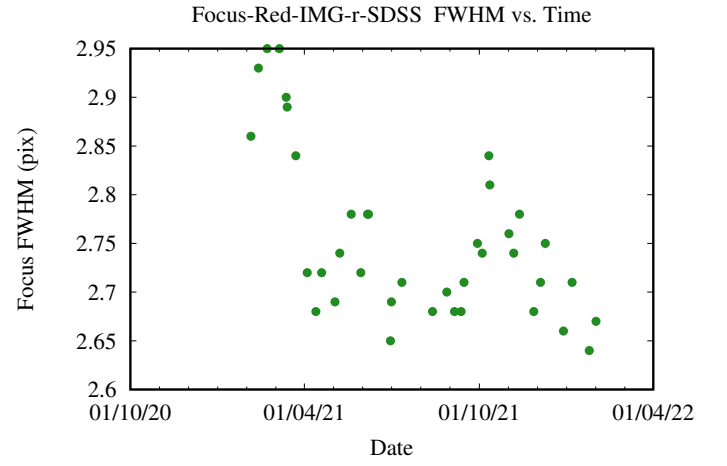
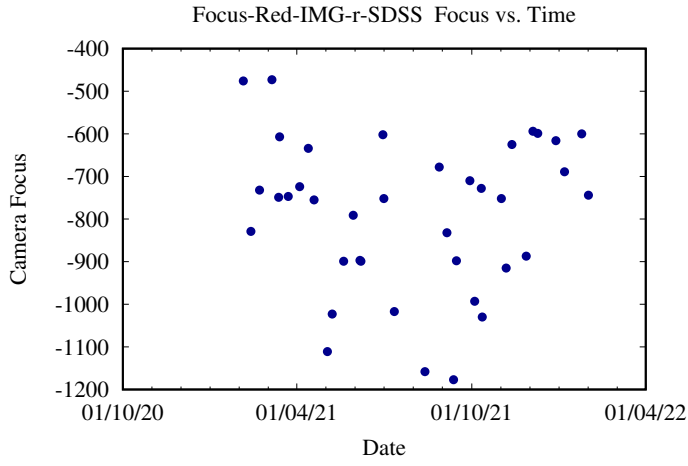
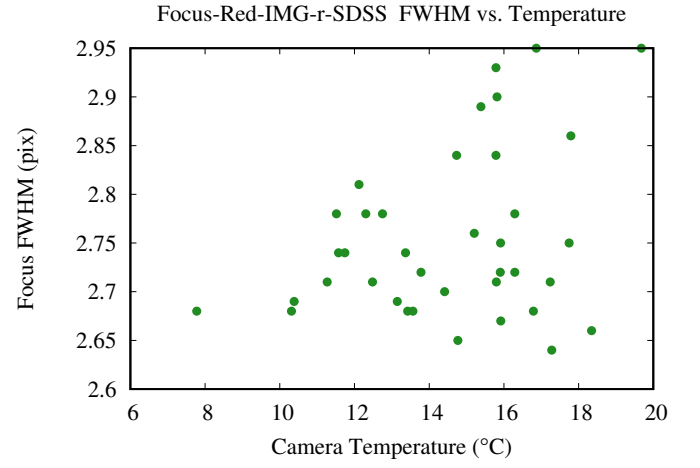
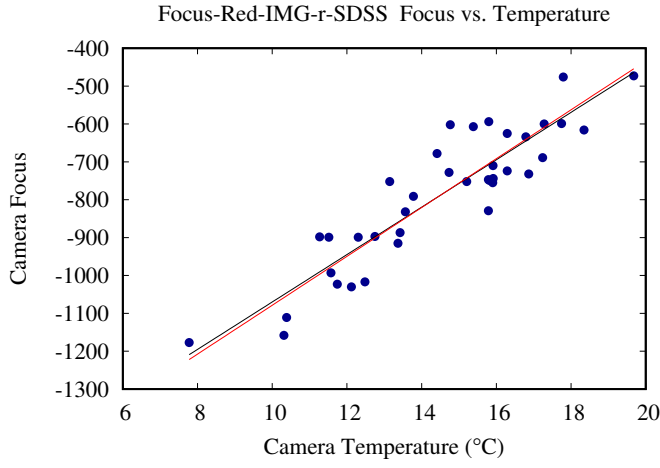
$$\text{Focus} = (65.0 \pm 4.5) \times T^{\circ}\text{C} - 1678 \pm 66 \quad (1)$$

$$\text{Focus} = 64.5 \times T^{\circ}\text{C} - 1671 \pm 11 \quad (2)$$



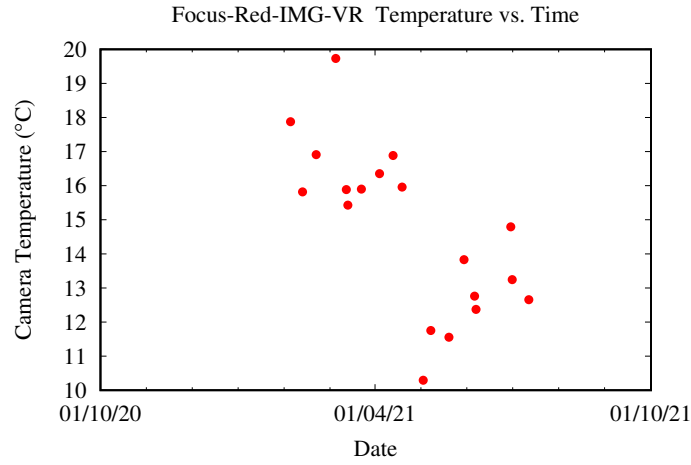
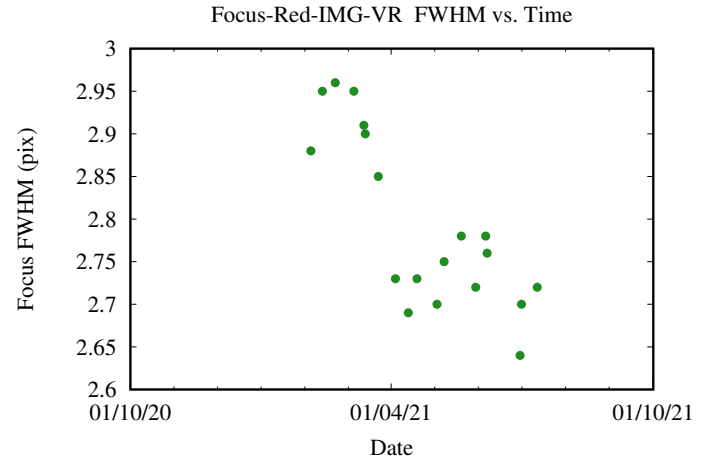
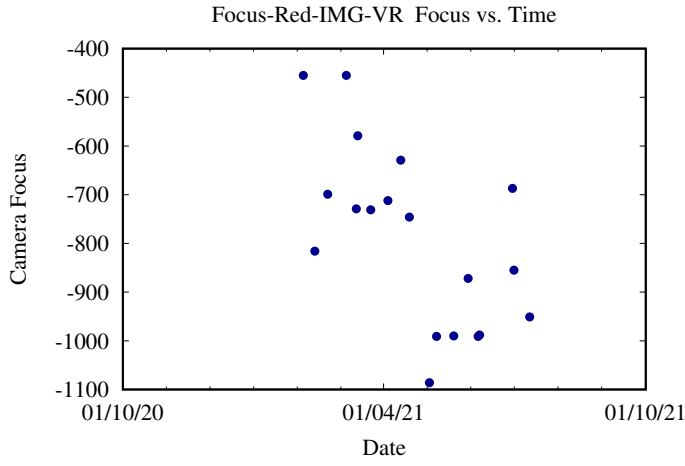
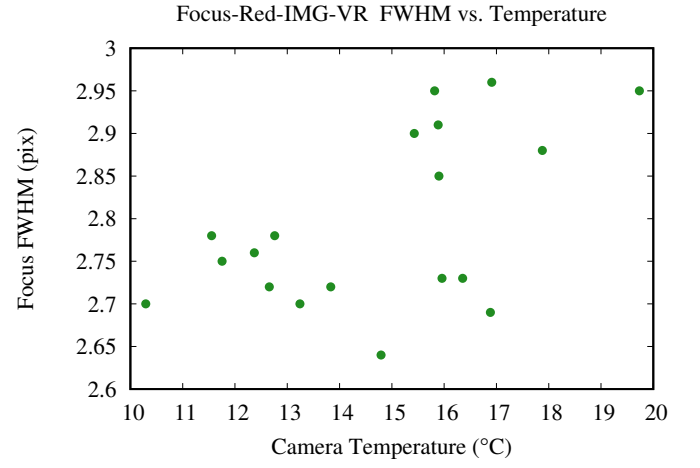
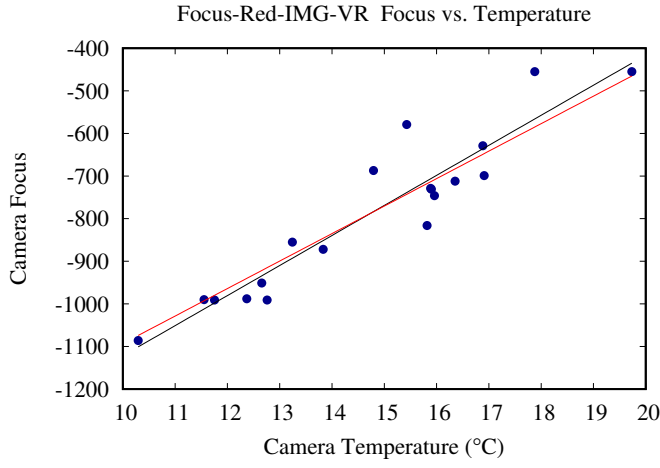
$$\text{Focus} = (63.9 \pm 4.3) \times T^{\circ}\text{C} - 1905 \pm 63 \quad (3)$$

$$\text{Focus} = 64.5 \times T^{\circ}\text{C} - 1914 \pm 11 \quad (4)$$



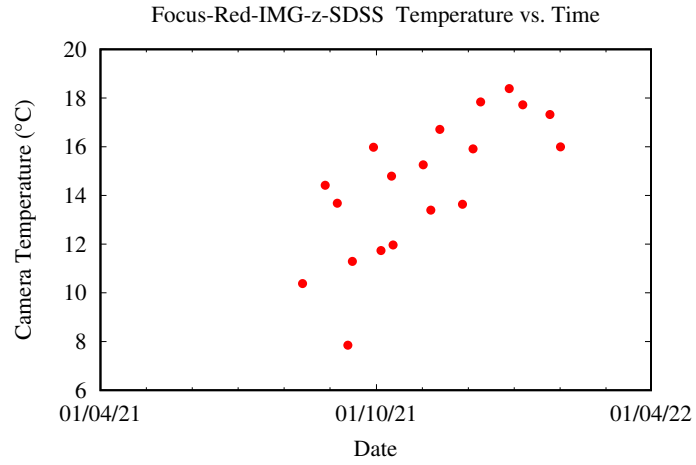
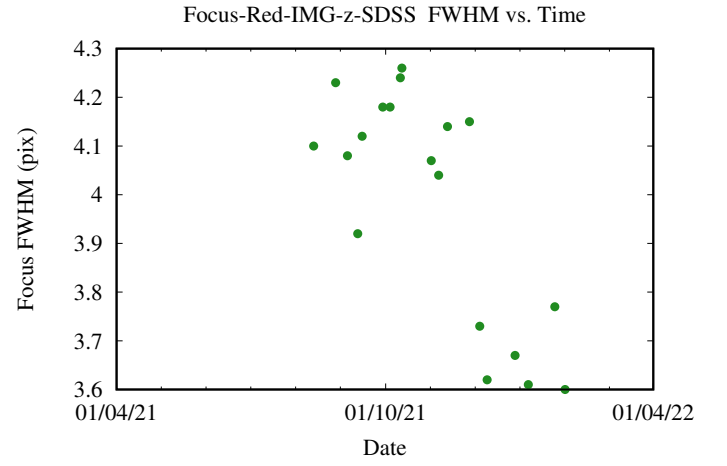
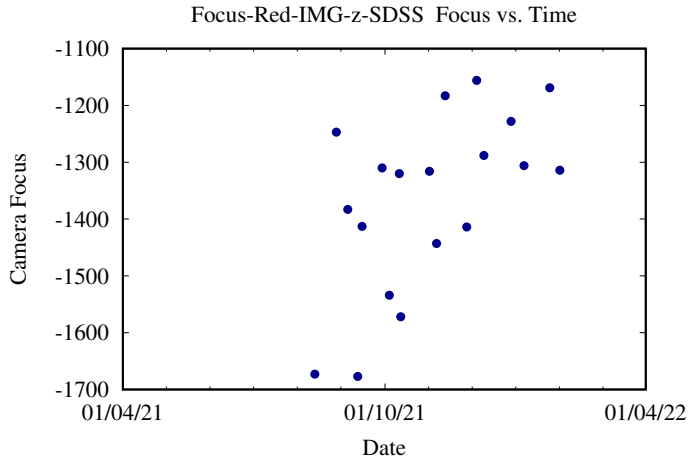
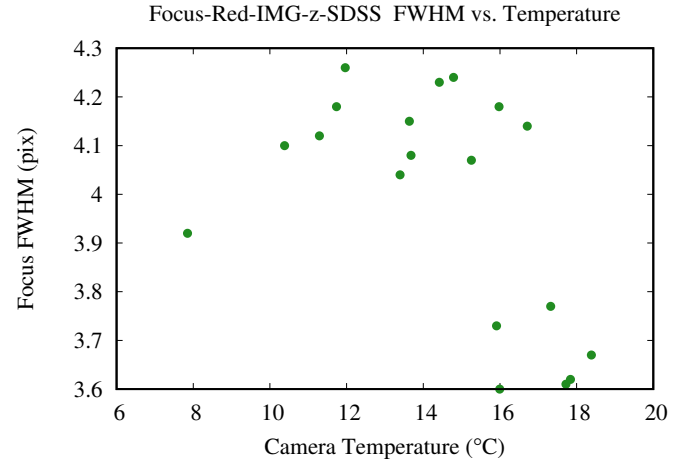
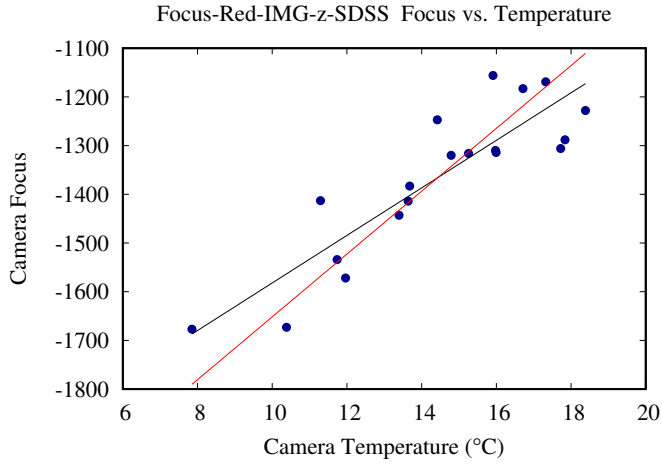
$$\text{Focus} = (62.6 \pm 4.8) \times T^{\circ}\text{C} - 1696 \pm 71 \quad (5)$$

$$\text{Focus} = 64.5 \times T^{\circ}\text{C} - 1724 \pm 12 \quad (6)$$



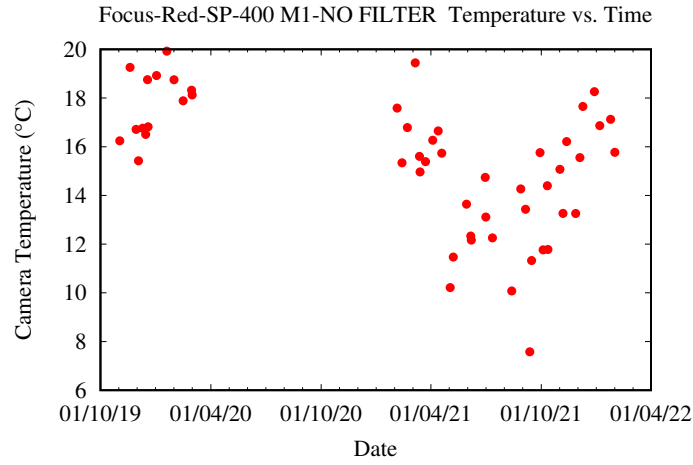
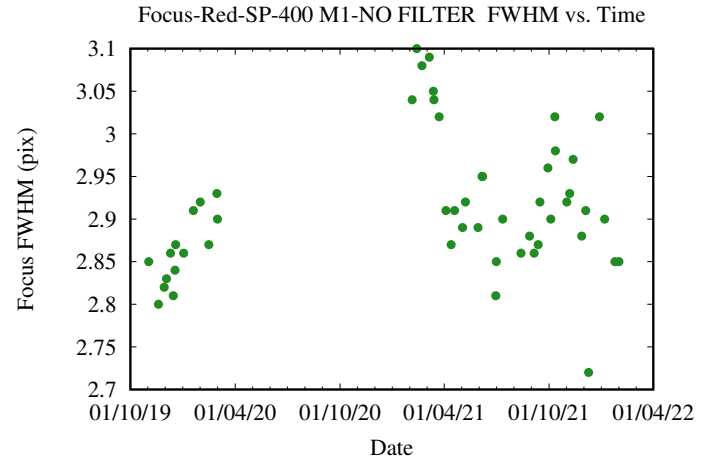
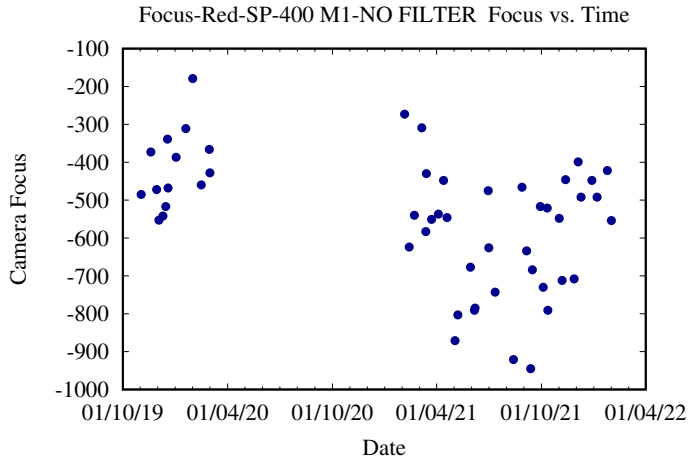
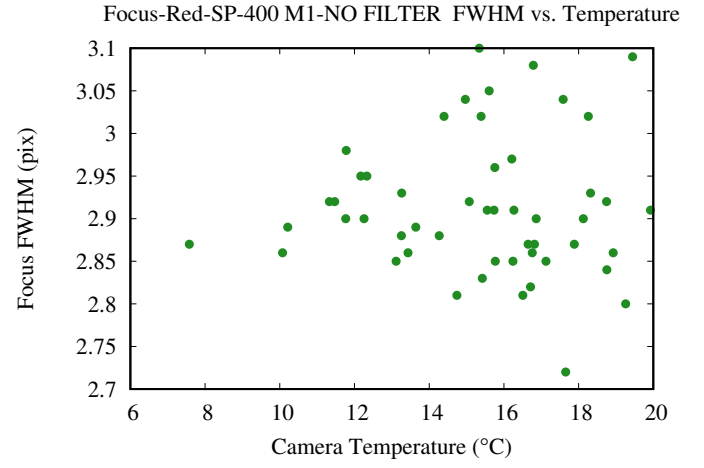
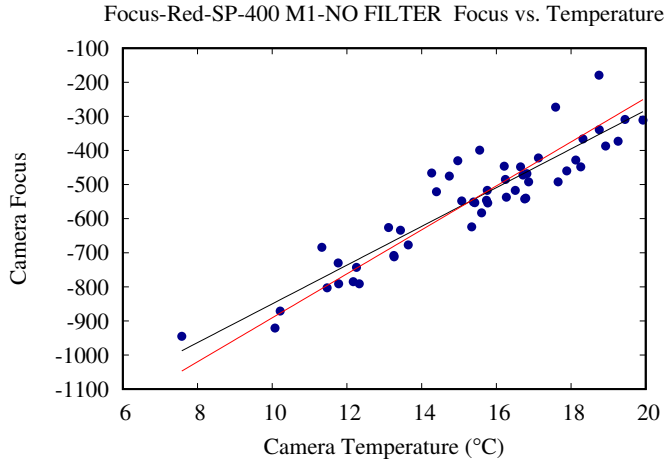
$$\text{Focus} = (70.5 \pm 6.4) \times T^{\circ}\text{C} - 1827 \pm 96 \quad (7)$$

$$\text{Focus} = 64.5 \times T^{\circ}\text{C} - 1738 \pm 15 \quad (8)$$



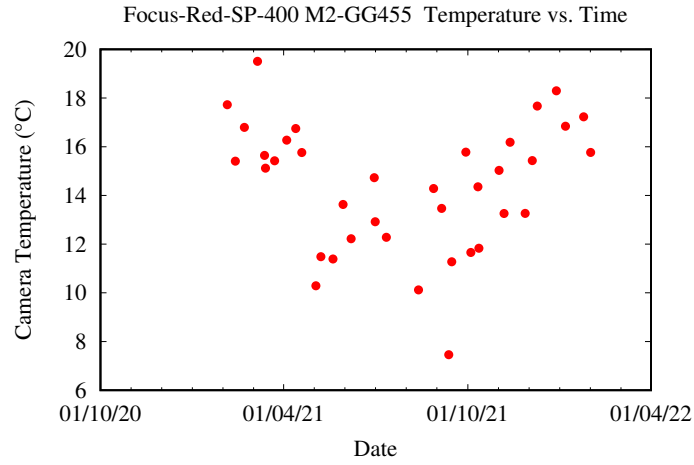
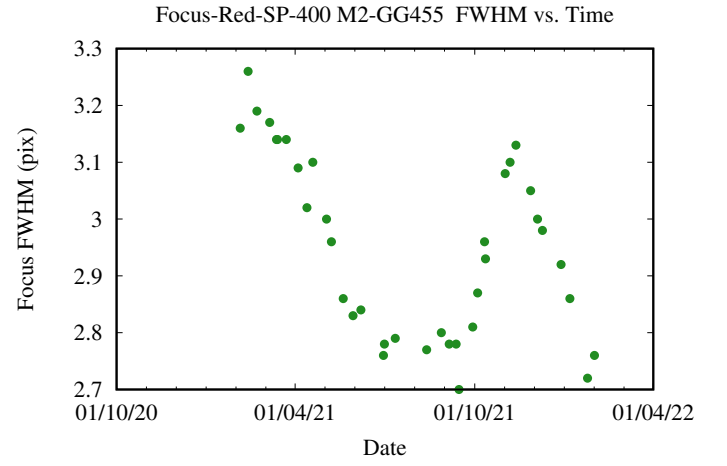
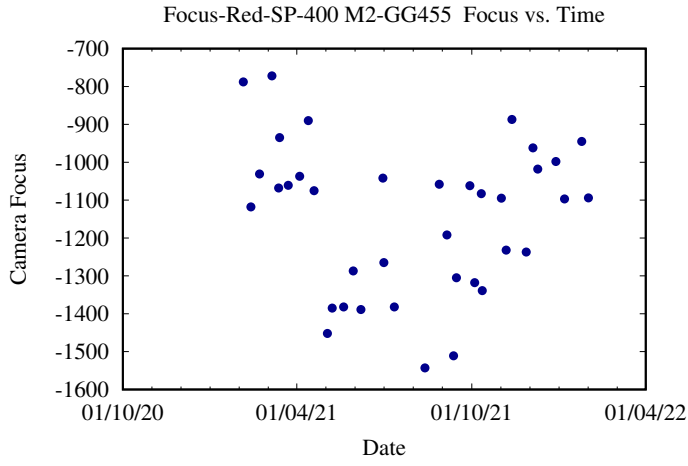
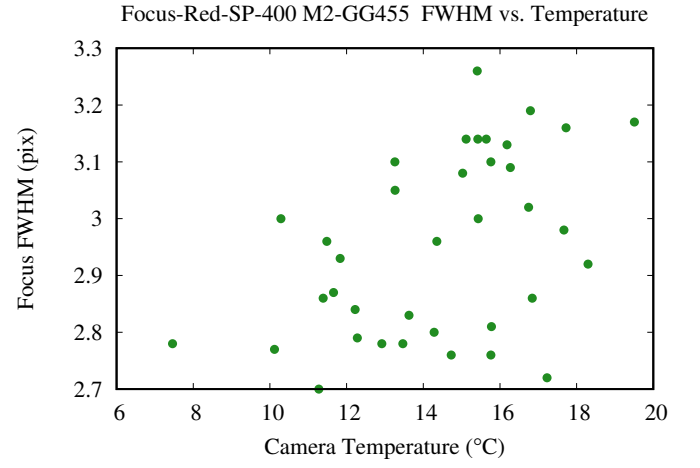
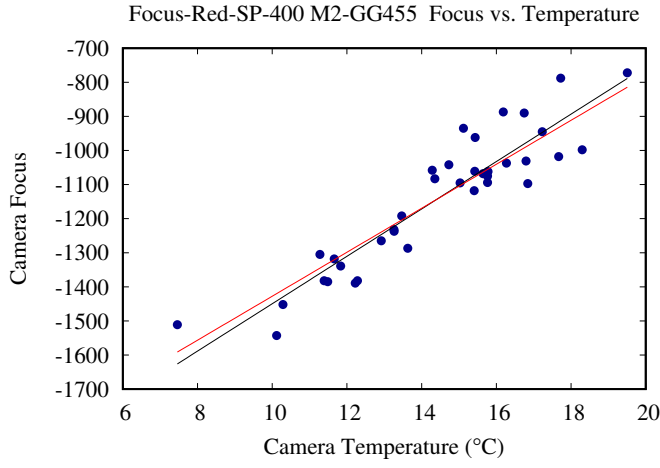
$$\text{Focus} = (48.8 \pm 6.3) \times T^{\circ}\text{C} - 2070 \pm 93 \quad (9)$$

$$\text{Focus} = 64.5 \times T^{\circ}\text{C} - 2297 \pm 20 \quad (10)$$



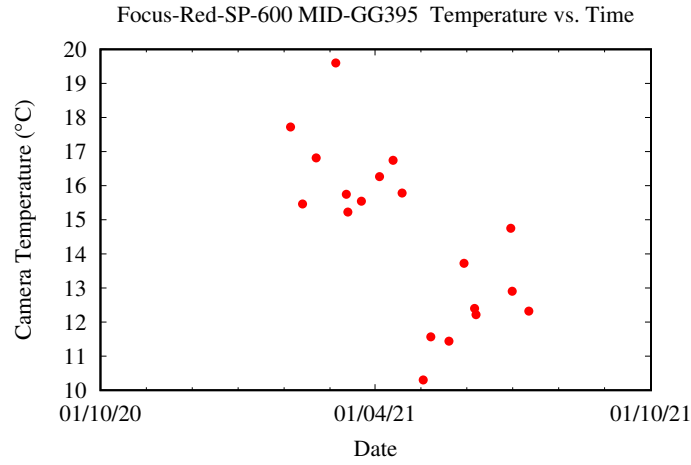
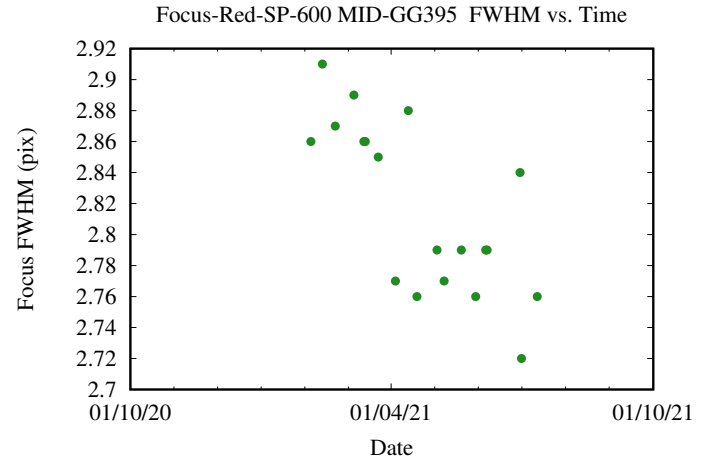
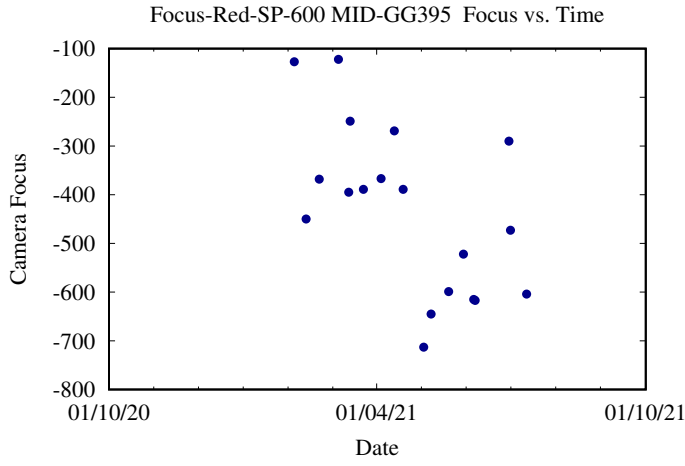
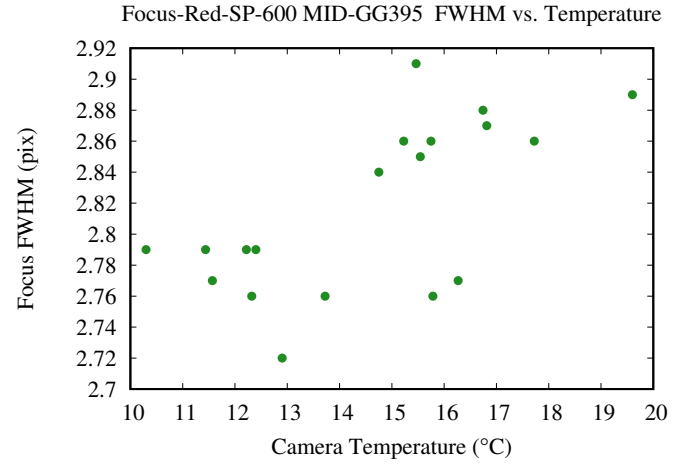
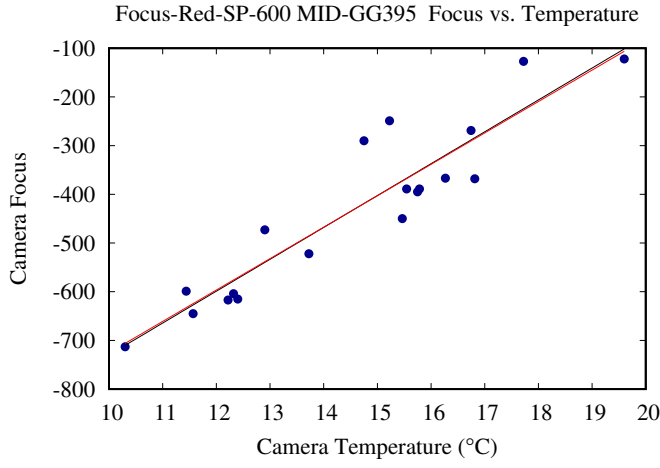
$$\text{Focus} = (56.8 \pm 3.4) \times T^{\circ}\text{C} - 1418 \pm 53 \quad (11)$$

$$\text{Focus} = 64.5 \times T^{\circ}\text{C} - 1536 \pm 10 \quad (12)$$



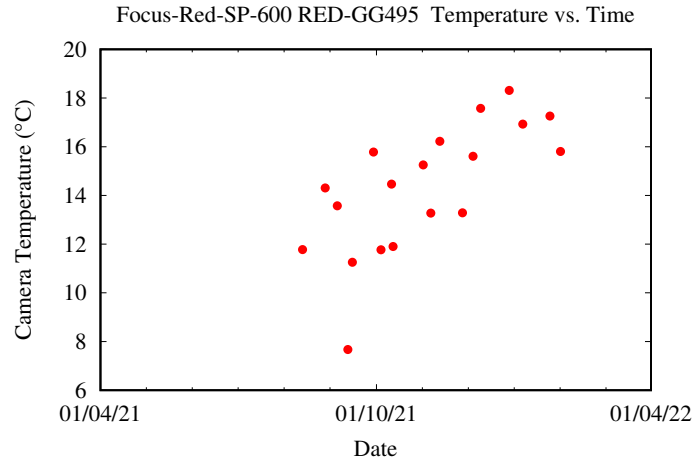
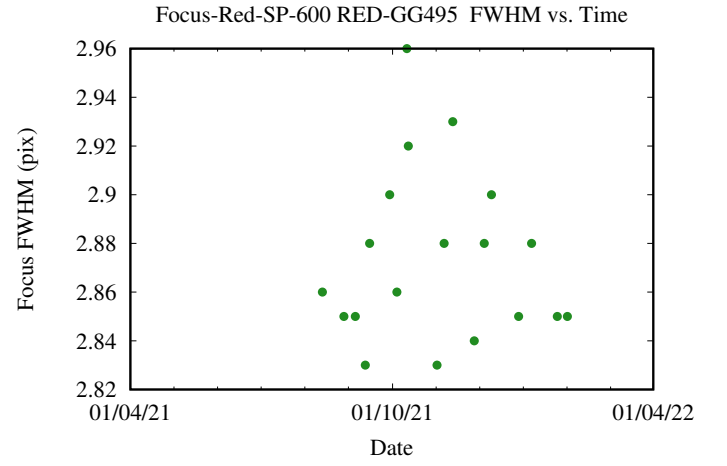
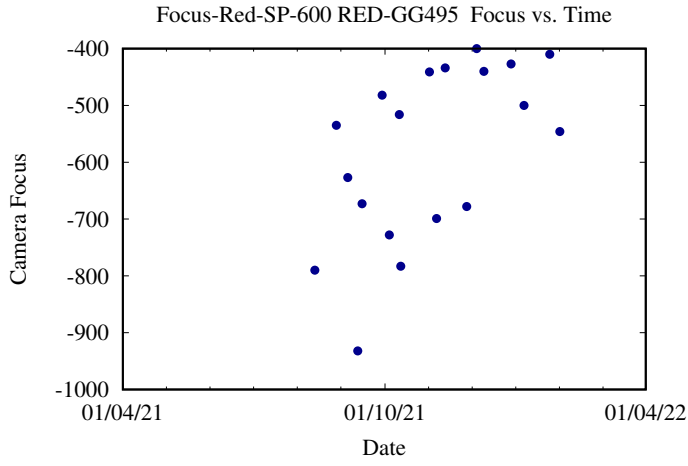
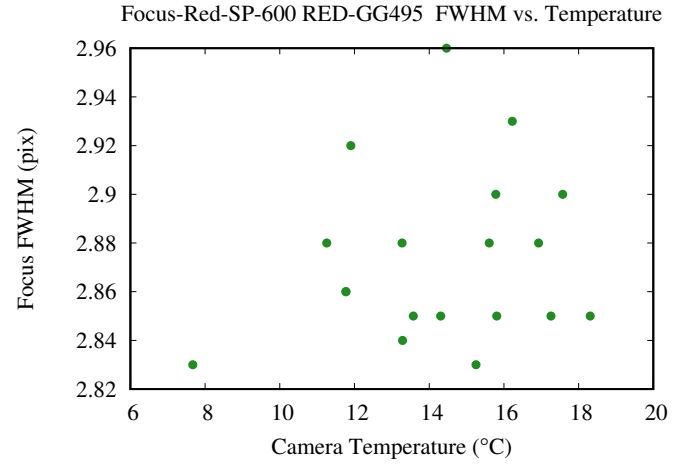
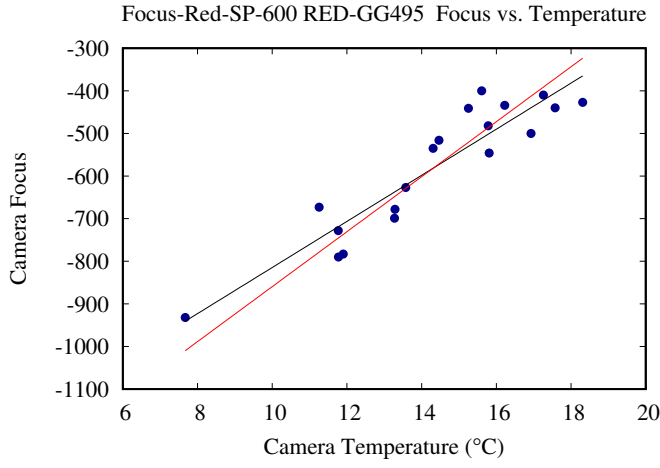
$$\text{Focus} = (69.5 \pm 4.9) \times T^{\circ}\text{C} - 2145 \pm 71 \quad (13)$$

$$\text{Focus} = 64.5 \times T^{\circ}\text{C} - 2073 \pm 13 \quad (14)$$



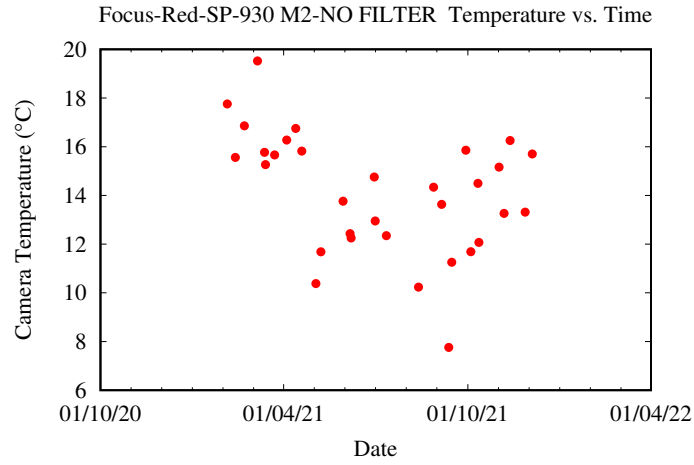
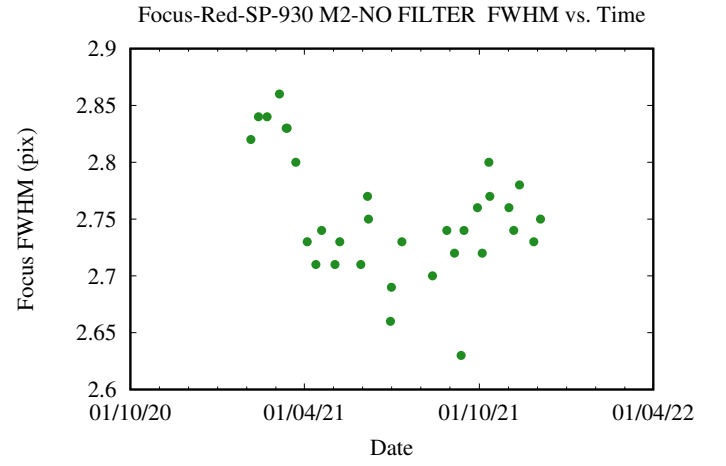
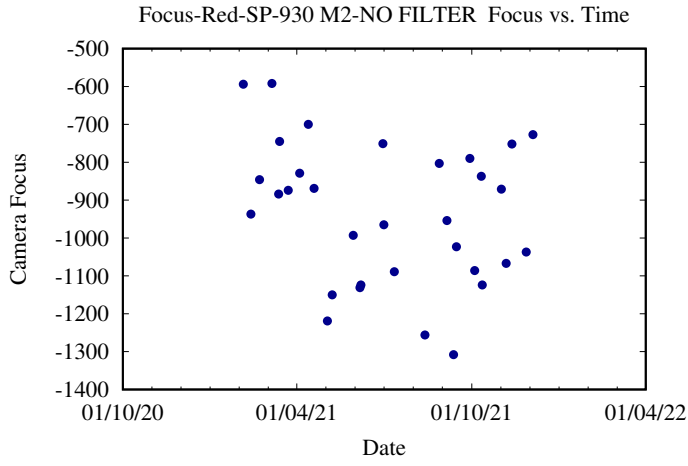
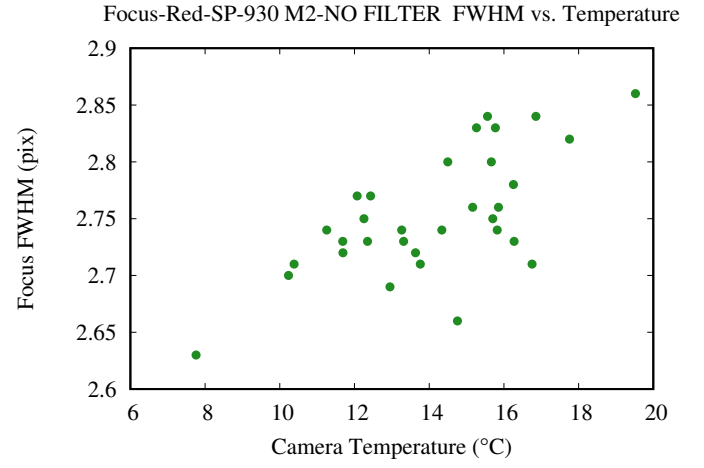
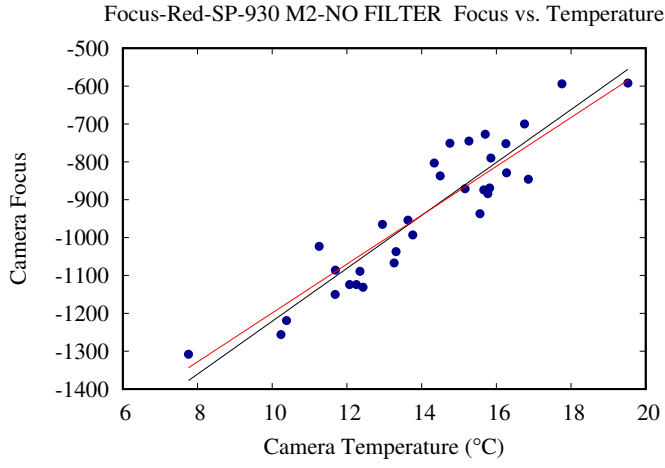
$$\text{Focus} = (65.5 \pm 6.4) \times T^{\circ}\text{C} - 1384 \pm 95 \quad (15)$$

$$\text{Focus} = 64.5 \times T^{\circ}\text{C} - 1370 \pm 15 \quad (16)$$



$$\text{Focus} = (54.1 \pm 5.3) \times T^{\circ}\text{C} - 1356 \pm 77 \quad (17)$$

$$\text{Focus} = 64.5 \times T^{\circ}\text{C} - 1505 \pm 15 \quad (18)$$



$$\text{Focus} = (69.8 \pm 5.1) \times T^{\circ}\text{C} - 1919 \pm 74 \quad (19)$$

$$\text{Focus} = 64.5 \times T^{\circ}\text{C} - 1844 \pm 13 \quad (20)$$